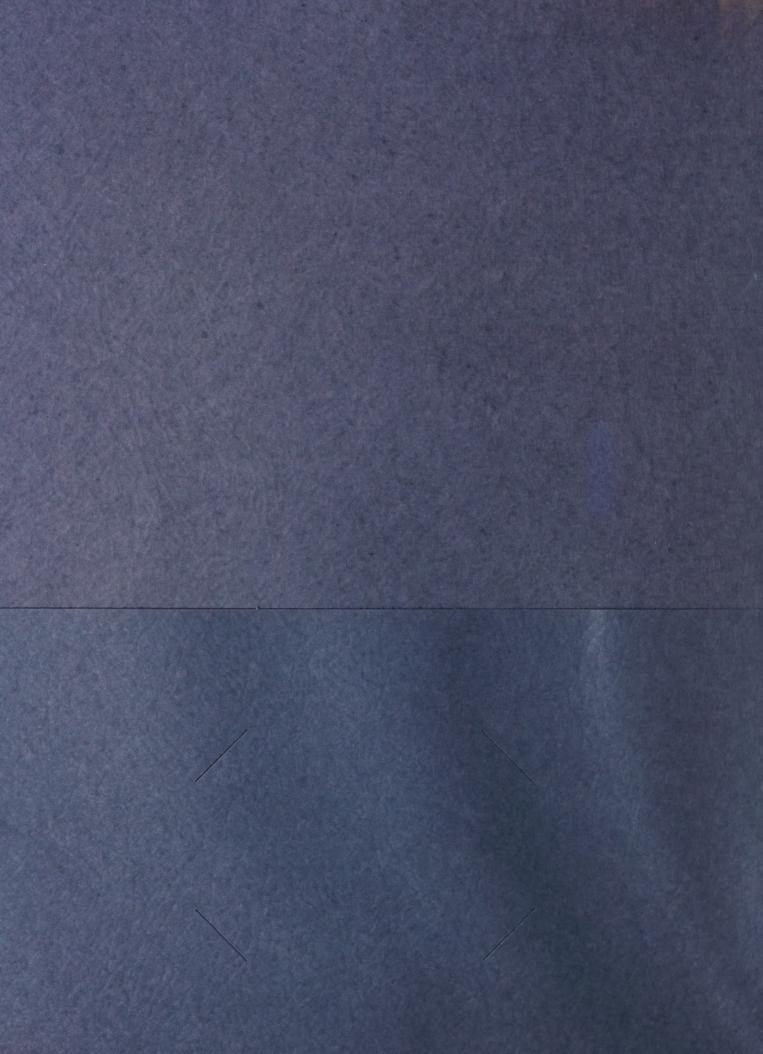
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Ontario
Occupational Health & Safety Division

Publications

October 1987



October 1987

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ONTARIO MINISTRY OF LABOUR

OCCUPATIONAL HEALTH AND SAFETY DIVISION

PUBLICATIONS



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Sources of Publications

Unless otherwise stated, copies of the publications listed herein may be obtained from:

Ontario Ministry of Labour
Edit and Control Section
400 University Ave., 9th Floor
Toronto, Ontario
M7A 1T7 CANADA
Telephone: (416) 965-8710

Other sources mentioned herein include:

Ontario Government Bookstore 880 Bay Street Toronto, Ontario M7A 1N8

Telephone: (416) 965-6015 Toll-Free: 1-800-268-7540

In Area Code 807: Zenith 67200 (ask Operator)

Ontario Ministry of Labour Library 400 University Ave., 10th Floor Toronto, Ontario M7A 1T7 Telephone: (416) 965-1641

Ontario Ministry of Labour Advisory Council 400 University Ave., 11th Floor Toronto, Ontario M7A 1T7 Telephone: (416) 965-2448

Ontario Ministry of Labour
Health and Safety Support Services Branch
400 University Ave., 7th Floor
Toronto, Ontario
M7A 1T7

Telephone: (416) 965-3213

CHANGES FROM LAST ISSUE

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DELETIONS (Out of date)

NONE

DELETIONS (Superseded)

NONE

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ACT AND REGULATIONS:

The Act*

Occupational Health and Safety Act, R.S.O. 1980, c. 321

Sector Regulations*

- Construction Projects, R.R.O. 1980, Reg. 691 as amended by O. Reg. 635/86.
- Industrial Establishments, R.R.O. 1980, Reg. 692
- Mines and Mining Plants, R.R.O. 1980, Reg. 694 as amended by
 O. Reg. 226/83, O. Reg. 569/83, O. Reg. 365/86, O. Reg. 450/86,
 O. Reg. 569/86, O. Reg. 654/86, O. Reg. 258/87

Designated Substances Regulations:

- Acrylonitrile, O. Reg. 733/84, as amended by O. Reg. 23/87
- Arsenic, O. Reg. 176/86, as amended by O. Reg. 23/87
- Asbestos, O. Reg. 570/82 as amended by O. Reg. 655/85,
 O. Reg. 23/87
- Asbestos on Construction Projects and in Buildings and Repair Operations, O. Reg. 654/85
- Benzene, O. Reg. 732/84, as amended by O. Reg. 23/87
- Coke Oven Emissions, O. Reg. 517/82, as amended by O. Reg. 23/87
- Ethylene Oxide, O. Reg. 146/87
- Isocyanates, O. Reg. 455/83, as amended by O. Reg. 23/87
- Lead, O. Reg. 536/81, as amended by O. Reg. 23/87
- Mercury, O. Reg. 141/82, as amended by O. Reg. 23/87
- Silica, O.Reg. 769/83, as amended by O. Reg. 23/87
- Vinyl Chloride, O. Reg. 516/82, as amended by O. Reg. 23/87
- * The Act and the three sector regulations are available in French from the Ontario Government Bookstore.

ACT AND REGULATIONS (cont'd):

Other Regulations

- Biological or Chemical Agents, Control of Exposure to,
 O. Reg. 654/86, as amended by O. Reg. 707/86, O. Reg. 339/87
- Critical Injury Defined, O. Reg. 714/82
- Diving Operations, O. Reg. 634/86
- Elevated or Suspended Work Places on Building Facades,
 O. Reg. 156/84
- Fire Fighters Protective Equipment, O. Reg. 125/83
- Inventory of Agents or Combinations of Agents For the Purpose of Section 21 of the Act, R.R.O. 1980, Reg. 693 (N.B. The actual inventory itself is available only from the United States Environmental Protection Agency)
- Oil and Gas, Offshore, O. Reg. 633/86
- Teachers, O. Reg. 191/84
- University Academics and Teaching Assistants, O. Reg. 307/84
- X-Ray Safety, O. Reg. 632/86 (includes a Technical Guide)

ADVISORY COUNCIL ON OCCUPATIONAL HEALTH AND OCCUPATIONAL SAFETY ANNUAL REPORTS:*

- First Annual Report: April 1, 1978 to March 31, 1979
- Second Annual Report: April 1, 1979 to March 31, 1980
- Third Annual Report: April 1, 1980 to March 31, 1981
- Fourth Annual Report: April 1, 1981 to March 31, 1982
- Fifth Annual Report: April 1, 1982 to March 31, 1983 (two volumes)
- Sixth Annual Report: April 1, 1983 to March 31, 1984
- Seventh Annual Report: April 1, 1984 to March 31, 1985
- Eighth Annual Report: April 1, 1985 to March 31, 1986 (two volumes)

* Available from the Ministry of Labour Advisory Council.

DRAFT REGULATIONS:

(distributed for comment)

- Cadmium (March 17, 1986)
- Chromium (September 22, 1986)
- Coal Tar on Construction Projects (June 4, 1986)
- Formaldehyde (June 11, 1986)
- Health Care Facilities (July 14, 1987)
- Isocyanates on Construction Projects (June 7, 1986)
- Lead on Construction Projects (January 28, 1986)
- Noise (July 7, 1986)
- Roll-over Protection (February 20, 1986)
- Silica on Construction Projects and Aggregate Production (February 25, 1986)
- Solvents (June 13, 1985)
- Styrene (September 30, 1986)
- Welding and Cutting Operations, Fumes and Gases in (September 27, 1986)
- Window Cleaning (February 10, 1986)

NOTICES OF POSSIBLE DESIGNATION:

(published in The Ontario Gazette)

- Coal Tar Products (July 5, 1984)
- Nickel (July 5, 1984)
- Polychlorinated Biphenyls PCBs (October 15, 1985)

NOTICES OF PROPOSED AMENDMENT:

(published in The Ontario Gazette)

- proposed amendment to Asbestos, O. Reg. 570/82 (July 4, 1987)
- proposed amendment to Construction Projects Regulation, R.R.O. 1980, Reg. 691 (February 10, 1986)
- proposed amendment to Mercury, O. Reg. 141/82 (January 18, 1986)

CONSULTANTS' STUDIES:

Subject

Acrylonitrile

Occupational Health Implications of

Acrylonitrile in Ontario,

Michael Holliday & Associates,

June 1980.

Study

- Amines and Azo Compounds

 An Assessment of the Hazards of
 Aromatic Amines and Azo
 Compounds in Ontario,
 Wellington Environmental
 Consultants Inc., April 1983.
- Benzene Occupational Health Implications of
 Benzene in Ontario, Michael
 Holliday & Associates,
 December 1979.
- Cadmium and Its Compounds: Health
 Impact of Production and Usage
 in the Work Place, Hatch
 Associates Ltd., November
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- Chlorinated Hydrocarbons

 Chlorinated Hydrocarbons

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 (Trichloroethylene,

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 Chloroform), Concord Scientific

 Corporation, 1982.

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- Chlorine

Occupational Health Implications of Chlorine Use in Ontario, IEC Beak Consultants Ltd., November 1983.

- Chromium

- The Occupational Aspects of
 Hexavalent Chromium in
 Ontario, M. Sabanski
 Associates, February 1980.
- Coal Tar Pitch Volatiles
- Occupational Health Aspects of
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 Volatiles (CTPV) in Ontario,
 Michael Holliday & Associates,
 June 1983.
- Diesel Exhaust Emissions
- Occupational Health Aspects of
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 Ontario, Michael Holliday &
 Associates, November 1981.

- Dry Cleaning

A Survey of the Solvent Inhalation
Exposure in Ontario's Dry
Cleaning and Degreasing Plants,
Guelph Chemical Laboratories
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	Subject	Study
-	Epoxy Resins	Worker Exposure to Epoxy Resins and Associated Substances, Acres Consulting Services Ltd., December 1984. see also "Plastics".
-	Ethylene Oxide	Occupational Health Aspects of Ethylene Oxide Use in Ontario, Michael Holliday & Associates, August 1982.
-	Formaldehyde	Occupational Health Implications of the Use of Formaldehyde in Ontario, Michael Holliday & Associates, July 1980.
-	Isocyanates	Assessment of Worker Exposure to Isocyanates, United Technology and Science Inc., February 1982.
-	Lead	see "Printing Operations".
-	Nickel	Worker Exposure to Nickel and Its Compounds, Acres Consulting Services Ltd., October 1982.

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- Plastics

- Assessment of Worker Exposure to
 Styrene and Epoxy Resin in the
 Reinforced Plastics Industry,
 University of Western Ontario
 (Occupational Health and Safety
 Resource Centre), February
 1982.
- Printing Operations
- Lead in Printing Operations An
 Investigation of Nine Plants in
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 University of Waterloo (The
 Centre for Occupational Health
 and Safety), March 1981.

Solvents

see "Dry Cleaning" and "Chlorinated Hydrocarbons".

- Styrene

- Occupational Health Survey of
 Worker Exposure to Styrene,
 Acres Consulting Services Ltd.,
 August 1981.
 see also "Plastics".
- Trimellitic Anhydride
- Occupational Exposure to Trimellitic
 Anhydride in Ontario,
 M.M. Dillon Limited, October
 1983.

Study Subject Vinyl Chloride Industrial Hygiene Surveys of Plants Using or Producing Vinyl Chloride, Ontario Research Foundation, May 1981. Occupational Exposure to Welding & Welding Cutting Hazards in Ontario, Hatch Associates Ltd., January 1985. Wood Dust Wood Dust Exposure in Ontario Industry: The Occupational Health Aspects, Michael Holliday & Associates, March 1986. Workplace Labelling Workplace Labelling of Hazardous Substances, Concord Scientific Corporation, 1980.

HEALTH EFFECTS DOCUMENTS

Subject

Study

- Acrylonitrile

An Analysis of Health Effects
Information for Acrylonitrile
and Recommendations for an
Occupational Standard, MOL,
June 1983.

Health Effects Document for Acrylonitrile, Syracuse Research Corporation, June 1983.

Carcinogenicity of Acrylonitrile, U.S.

Environmental Protection

Agency (Cancer Assessment

Group), June 1983.

- Arsenic

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Occupational Standard, MOL,
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On an Occupational Standard for Exposure to Asbestos, MOL, August 1978.

A Discussion of Health Effects Issues
Relevant to the Setting of an
Occupational Standard for
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Ontario, MOL, August 1981.

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-	Benzene	An Analysis of Health Effects of Benzene and Recommendations for an Occupational Standard, MOL, July 1983.
-	Cadmium	Health Effects of Cadmium and Its Inorganic Compounds, MOL, May 1985.
-	Chromium	Effects of Chromium Compounds on Human Health, McMaster University (Dept. of Biochemistry and Occupational Health Program), December 1984. Summary of the Health Effects of Chromium, MOL, January 1986, revised September 1986.
-	Coal Tar	Health Effects of Coal Tar Products and Bitumens, McMaster University, September 1986.
-	Ethylene Oxide	Health Effects of Ethylene Oxide, McMaster University, 1983. A Risk Assessment for Occupational Exposure to Ethylene Oxide, MOL, October 1983 (revised

April 1984).

HEALTH EFFECTS DOCUMENTS (cont'd):

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esin	Formaldehyde	Formaldehyde Toxicity - Proposed TWA Exposure Criterion, MOL, July 1983.
-	Isocyanates	Health Effects of Isocyanates with Addenda of June, 1981 and October, 1982, MOL, November 1978.
-	Lead	Lead and Its Inorganic Compounds, MOL, October 1978 (addendum April 1981).
tion	Mercury	Health Criteria Document - Mercury and Its Compounds with Addenda of May 1981, MOL.
-	Nickel	Health Effects Document on Nickel, Odense University, Denmark (Dept. of Environmental Medicine), 1986.
-	Silica	Occupational Exposure to Silica, MOL, March 1979 (with Addendum of September 1982).
-	Styrene	Evaluation of Styrene Health Effects and Exposure-Effect Relationship(s), MOL, November 1984. The Effect of Styrene Exposure on the Human Nervous System, MOL, February 1984.

HEALTH EFFECTS DOCUMENTS (cont'd):

Wood Dusts

	Subject	Study
- 1	Tobacco Smoke	The Health Effects of Involuntary Exposure to Tobacco Smoke, MOL, June 1985.
-	Vinyl Chloride	Occupational Exposure to Vinyl Chloride, MOL, October 1979 (Including Addendum of June 1981).
-	Welding	The Health Effects of Welding and Cutting Fumes, MOL, October 1985.

The Health Effects of Exposure to Wood

Dusts, MOL, June 1986.

OTHER STUDIES:

Subject

Asbestos

Study

Report of the Royal Commission on Matters of Health and Safety Arising From the Use of Asbestos in Ontario (3 volumes), J. Stefan Dupre, Chairman, 1984.

(This Report, along with the "Related Publications", is available from the Ontario Government Bookstore.)

Related Publications of Royal Commission on Asbestos:

RCA Study Series

No. 1. Collective Bargaining and Asbestos Dangers at the Workplace, by Morley Gunderson and Katherine Swinton. 1981.

No. 2. Workers' Compensation and Asbestos in Ontario, by Peter S. Barth. 1982.

No. 3. Policy Options in the Regulation of Asbestos-Related Health Hazards, by Carolyn J. Tuohy and Michael J. Trebilcock. 1982.

No. 4. The Politics of Risk: The Identification of Toxic and Other Hazardous Substances in Canada, by G. Bruce Doern. 1982.

Subject

Asbestos (cont'd)

Study

No. 5. Living with Contradictions: Health and Safety Regulation and Implementation in Ontario, by G. Bruce Doern, Michael Prince, and Garth McNaughton. 1982.

No. 6. Worker Attitudes About Health and Safety in Three Asbestos Brake Manufacturing Plants, by Sally Luce and Gene Swimmer. 1982.

No. 7. The Technical Feasibility and Cost of Controlling Workplace Exposure to Asbestos Fibres, by Gordon M. Bragg. 1982.

No. 8. Asbestos in Buildings, by Donald J. Pinchin. 1982.

No. 9. Measurement of Asbestos Fibre Concentrations in Workplace Atmospheres, by Eric J. Chatfield. 1982.

No. 10. Measurement of Asbestos Fibre Concentrations in Ambient Atmospheres, by Eric J. Chatfield. 1983.

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Study

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RCA Background Paper Series

No. 1. A Survey of Asbestos Policies in Canada with Particular Emphasis on Ontario, by Sandra Glasbeek. 1981.

No. 2. A Review of Four Major Reports on the Health Hazards of Asbestos, by The Canadian Centre for Occupational Health and Safety. 1981.

Ethylene Oxide

Task Force Report on Survey of Ethylene Oxide Use In Ontario Hospitals, September 1984.

- Formaldehyde

Report of a Panel: Review of the Available Information on the Health Effects of Occupational Exposure to Formaldehyde, E. Farber, L. Goldberg and I.C. Munro, January 1985.

Gold Miners

Study of Mortality of Ontario Gold Miners, 1955-1977, J. Muller, et al., July 1986.

Joint Health and
 Safety Committees

An Evaluation of Joint Health and Safety Committees in Ontario, SPR Associates Inc., March 1986 (being Volume 2 of the Advisory Council's Eighth Annual Report – available from the Ministry of Labour Advisory Council).

Subject

Study

- Lead

The Health Effect of Lead in Gasoline, Evert Nieboer and Annalee Yassi, April 1983.

- Mining

Towards Safe Production: The Report of The Joint Federal-Provincial Inquiry Commission into Safety in Mines and Mining Plants in Ontario (2 volumes), Kevin M. Burkett, Chairman, April 1981.

Study of Mortality of Ontario Miners, 1955-1977, Part 1, J. Muller, et al., May 1983.

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- Noise

Report of the Special Advisory Committee on the Noise Regulation, Kevin M. Burkett, December 1985.

 Occupational Health and Safety

Report of the Royal Commission on the Health and Safety of Workers in Mines, James M. Ham, Commissioner, 1976.

Report on the Administration of the Occupational Health and Safety Act, 2 volumes, G.G. McKenzie and J.I. Laskin, January 1987 (available from the Ontario Government Bookstore).

	Subject	Study
-	Printing	Dermatitis in the Printing Industry, St. Michael's Hospital (Department of Occupational and Environmental Health), no date.
-	Talc	Report of Committee to Review Certain Questions Concerning the Health Effects of Fibrous Dust Particles in Talc, Scientific Task Force on Talc (ACOHOS), September 1984.
-	Workers' Compensation	Occupational Disease and Workers' Compensation in Ontario, Annalee Yassi, n.d. (a report prepared for Paul C. Weiler's study of workers' compensation in Ontario).
		Permanent Partial Disability: Alternative Models for Compensation, Paul C. Weiler, December 1986.
		Protecting the Worker From Disability: Challenges for the Eighties, Paul C. Weiler, April 1983.
		Reshaping Workers' Compensation for Ontario, Paul C. Weiler, November 1980.

SAFETY STUDIES:

- Attitudes, Communication and Occupational Safety: Overcoming Attitudes Towards Disabled Employees, Gerald Goldberg.
- Female Capacity for Physical Work, John Vander Doelen.
- Fitness and Occupational Injuries: A Review, John Vander Doelen.
- Helping Behaviour within the Workplace: A Guide to Stimulating Safety Advice, Warnings of Potential Dangers, and Speedy Responses to Emergencies, Gerald Goldberg.
- Intellectual Skills and Personality Traits, Gerald Goldberg.
- An Investigation into the Effect of Concrete Reinforcement Work on Degenerative Back Disease and Back Injury, Franz Schneider.
- Repetitive Strain Injuries: A Preventative Approach,
 Heather MacDonald.
- Shift Work: The Problems and Approaches, John Vander Doelen.
- Work Practices to Reduce Heat Strain, John Vander Doelen.

Papers:

- Human Factors and Fire Safety Report, Heather MacDonald.
- Overview of VDT Ergonomics, G. R. Wright.
- Safety Criteria for Manual Materials Handling, G. R. Wright.

GUIDES:

- A Guide to the Occupational Health and Safety Act (available also in French, Italian and Portuguese)
- A Guide for Joint Health and Safety Committees and Representatives in the Workplace (available also in French)
- Designated Substances in the Workplace:
 - A General Guide to the Regulations
 - A Guide to the Acrylonitrile Regulation
 - A Guide to the Benzene Regulation
 - A Guide to the Isocyanates Regulation
 - A Guide to the Lead Regulation
 - A Guide to the Mercury Regulation
 - A Guide to the Silica Regulation
- Designated Substances in the Workplace: A Guide to the Asbestos
 Regulation for Construction Projects, Buildings and Repair Operations

DATA SHEETS FOR INSPECTORS:

- Acetone
- Acrylonitrile
- Arsenic
- Arsenic Pentoxide
- Arsenic Trioxide
- Benzene
- Beryllium
- Cadmium
- Chlorine
- Diphenylmethane Diisocyanate
- Ethylene Oxide
- Lead
- Mercury
- Phosgene
- Silica, Crystalline
- Styrene
- Tetraethyl Lead
- Toluene
- Toluene Diisocyanate
- 1,1,1-Trichloroethane
- Trichloroethylene
- Vinyl Chloride
- Xylene (o-,m-,p-isomers)

HAZARD ALERTS:

- Asbestos on Pipes and Boilers, June 1984
- Asbestos Vehicle Repair, June 1984
- Carbon Monoxide Hazard in Arenas, December 1983
- Chicots (available in French), October 1984
- Conveyors, March 1984
- Elevated or Suspended Work Places on Building Facades, February 1984
- Enriched Oxygen Atmosphere, August 1983
- Entry into Septic and Sewage Holding Tanks, October 1985
- Explosion of Tires During Repair (available in French), March 1985
- Hang Up Trees (available in French), April 1984
- Isocyanates Auto Body Shops, July 1986
- Lathe Turnings, August 1984
- Manholes in Sewers (available in French), January 1986
- Refuse Packer Trucks, January 1986 (revised)
- Road Tanker Explosion (available in French), October 1984
- Sewer Cleaning Bucket Machines, August 1985
- Sidewalk Sandspreader Fatality, August 1983
- Spring Brakes, August 1983
- Suspended Equipment and Displays, December 1983
- Toxic Fumes from Welding on Surfaces with Protective Coatings,
 January 1984
- Toxic Smoke from Azinphos Methyl, August 1986
- Waste Shredder Compactor (available in French), April 1984

MISCELLANEOUS:

- Extracts from the Occupational Health and Safety Act Wall Poster (available also in French, Italian, Spanish, Portuguese, Greek and Chinese)
- Prohibition of Reprisals by Employers Pamphlet (one pamphlet contains <u>all</u> of the following languages: English, French, Italian, Spanish, Portuguese, Greek and Chinese)
- Occupational Health in Ontario (quarterly Journal available through the Health and Safety Support Services Branch)
- Occupational Health and Safety Information Service Data Base Pamphlet (in both English and French available through the Ministry of Labour Library)
- An Occupational Health Nurse's Guide For the Preparation of a Policy and Procedure Manual (available through the Government Bookstore)
- For the Information of Homeowners: Asbestos in Private Homes
- List of Industrial Hygiene Consultants in Ontario, November 1986
- Guidelines on the Prevention and Control of Occupational Exposure to Polychlorinated Biphenyls (PCBs), July 1986
- Policy and Procedure Concerning Notification of Inspections,
 March 1987
- Policy and Procedure on Appealing Orders, April 1987
- Information Bulletin re: Worker Right-to-Know and the Workplace
 Hazardous Materials Information System, September 1987





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